WHAT IS CLAIMED IS:

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1. A duty cycle correction circuit comprising:

a delay unit for receiving a first clock signal in which a first logic value has a shorter period of time per cycle than a second logic value, delaying the first clock signal, and outputting a second clock signal which transitions to the second logic value at a timing at which the period of time equivalent to a half cycle has elapsed since the first clock signal transitioned to the first logic value; and

a clock-signal output unit for outputting a third clock signal based on the first and second clock signals,

wherein the clock-signal output unit comprises: a first output unit for setting the third clock signal at a first logic output value with either one of the first logic value and the second logic value in response to the transition of the first clock signal to the first logic value; and a second output unit for setting the third clock signal at a second logic output value with the other of the first logic value and the second logic value in response to the transition of the second clock signal to the second logic value, and

the duty cycle correction circuit receives the first clock signal and corrects the duty cycle of the received signal to output the third clock signal.

- 2. The circuit of claim 1, wherein the first clock signal is produced by a frequency divider circuit.
 - 3. The circuit of claim 1,

wherein the first output unit includes a first transistor which is of either one of nchannel type and p-channel type and whose gate receives the first clock signal,

the second output unit includes a second transistor which is of the other of nchannel type and p-channel type, whose gate receives the second clock signal and whose drain is connected to a drain of the first transistor, and

the third clock signal is based on a signal output from the common drain of the first and second transistors.

- 4. The circuit of claim 1, wherein the delay unit includes a transfer gate which is put into condition to pass a received signal and which receives the first clock signal to output the second clock signal.
- 5. The circuit of claim 4, wherein the transfer gate includes a transistor whose gate and drain are connected to each other.
 - 6. The circuit of claim 5,

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wherein the first clock signal is produced by a clock-signal production circuit formed of at least one n-channel transistor and at least one p-channel transistor,

the clock-signal output unit is formed of at least one n-channel transistor and at least one p-channel transistor, and

the transistor forming the delay unit has either one of the n- and p-channel types in respect of which type transistors included in the clock-signal production circuit and in the first output unit of the clock-signal output circuit and tuned on when the third clock signal transitions to the first logic output value are different in number from transistors included in the clock-signal production circuit and in the second output unit of the clock-signal output circuit and turned on when the third clock signal transitions to the second logic output value.

7. The circuit of claim 1, wherein the delay unit includes a transistor whose gate is supplied with a predetermined voltage and of which either one of a source and a drain receives the first clock signal to output the second clock signal from the other of the drain and the source, and

the predetermined voltage supplied to the gate of the transistor is above a gate threshold value in the case where the transistor is an n-channel transistor while the predetermined voltage supplied to the gate of the transistor is below the gate threshold value in the case where the transistor is a p-channel transistor.

8. The circuit of claim 7, wherein the first clock signal is produced by a clock-signal production circuit formed of at least one n-channel transistor and at least one p-channel

transistor,

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the clock-signal output unit is formed of at least one n-channel transistor and at least one p-channel transistor, and

the transistor forming the delay unit has either one of the n- and p-channel types in respect of which type transistors included in the clock-signal production circuit and in the first output unit of the clock-signal output circuit and tuned on when the third clock signal transitions to the first logic output value are different in number from transistors included in the clock-signal production circuit and in the second output unit of the clock-signal output circuit and turned on when the third clock signal transitions to the second logic output value.